

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/192,611DATE: 03/01/2000 3/4/00
TIME: 12:43:34

INPUT SET: S34907.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

ENTERED

(i) APPLICANT: Glimcher, Laurie H.
Hodge, Martin R.(ii) TITLE OF INVENTION: NF-AT-INTERACTING PROTEIN NIP45 AND METHODS
OF USE THEREFOR

(iii) NUMBER OF SEQUENCES: 2

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: LAHIVE & COCKFIELD
(B) STREET: 60 State Street, suite 510
(C) CITY: Boston
(D) STATE: Massachusetts
(E) COUNTRY: USA
(F) ZIP: 02109-1875

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 09/192,611
(B) FILING DATE:
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/08/755,584
(B) FILING DATE:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Giulio A. DeConti, Jr.
(B) REGISTRATION NUMBER: 31,503
(C) REFERENCE/DOCKET NUMBER: HUI-026

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (617)227-7400
(B) TELEFAX: (617)227-5941

(2) INFORMATION FOR SEQ ID NO:1:

RAW SEQUENCE LISTING PATENT APPLICATION US/09/192,611

 DATE: 03/01/2000
 TIME: 12:43:34

INPUT SET: S34907.raw

```

47
48      (i) SEQUENCE CHARACTERISTICS:
49          (A) LENGTH: 1946 base pairs
50          (B) TYPE: nucleic acid
51          (C) STRANDEDNESS: single
52          (D) TOPOLOGY: linear
53
54      (ii) MOLECULE TYPE: cDNA
55
56      (ix) FEATURE:
57          (A) NAME/KEY: CDS
58          (B) LOCATION: 13..1248
59
60
61      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62
63      ACAGTGTGGG AG ATG GCG GAA CCA CTG AGG GGA CGT GGT CCG AGG TCC      48
64          Met Ala Glu Pro Leu Arg Gly Arg Gly Pro Arg Ser
65              1              5              10
66
67      CGC GGT GGC CGA GGC GCT CGG AGA GCC CGA GGC GCC CGT GGC CGG TGT      96
68      Arg Gly Gly Arg Gly Ala Arg Arg Ala Arg Gly Ala Arg Gly Arg Cys
69          15              20              25
70
71      CCT CGC GCC CGG CAG TCT CCG GCT AGG CTC ATT CCA GAC ACC GTG CTT      144
72      Pro Arg Ala Arg Gln Ser Pro Ala Arg Leu Ile Pro Asp Thr Val Leu
73          30              35              40
74
75      GTG GAC TTG GTC AGT GAC AGC GAC GAA GAG GTC TTG GAA GTC GCA GAC      192
76      Val Asp Leu Val Ser Asp Ser Asp Glu Glu Val Leu Glu Val Ala Asp
77          45              50              55              60
78
79      CCA GTA GAG GTG CCG GTC GCC CGC CTC CCC GCG CCG GCT AAA CCT GAG      240
80      Pro Val Glu Val Pro Val Ala Arg Leu Pro Ala Pro Ala Lys Pro Glu
81          65              70              75
82
83      CAG GAC AGC GAC AGT GAC AGT GAA GGG GCG GCC GAG GGG CCT GCG GGA      288
84      Gln Asp Ser Asp Ser Asp Ser Glu Gly Ala Ala Glu Gly Pro Ala Gly
85          80              85              90
86
87      GCC CCG CGT ACA TTG GTG CGA CGG CGG CGG CGG CGG CTG CTG GAT CCC      336
88      Ala Pro Arg Thr Leu Val Arg Arg Arg Arg Arg Arg Leu Leu Asp Pro
89          95              100              105
90
91      GGA GAG GCG CCG GTG GTC CCA GTG TAC TCC GGG AAG GTA CAG AGC AGC      384
92      Gly Glu Ala Pro Val Val Pro Val Tyr Ser Gly Lys Val Gln Ser Ser
93          110              115              120
94
95      CTC AAC CTC ATT CCA GAT AAT TCA TCC CTC TTG AAA CTG TGC CCT TCA      432
96      Leu Asn Leu Ile Pro Asp Asn Ser Ser Leu Leu Lys Leu Cys Pro Ser
97          125              130              135              140
98
99      GAG CCT GAA GAT GAG GCA GAT CTG ACA AAT TCT GGC AGT TCT CCC TCT      480
  
```

RAW SEQUENCE LISTING PATENT APPLICATION US/09/192,611

DATE: 03/01/2000
TIME: 12:43:34

INPUT SET: S34907.raw

100	Glu Pro Glu Asp Glu Ala Asp Leu Thr Asn Ser Gly Ser Ser Pro Ser	
101	145 150 155	
102		
103	GAG GAT GAT GCC CTG CCT TCA GGT TCT CCC TGG AGA AAG AAG CTC AGA	528
104	Glu Asp Asp Ala Leu Pro Ser Gly Ser Pro Trp Arg Lys Lys Leu Arg	
105	160 165 170	
106		
107	AAG AAG TGT GAG AAA GAA GAA AAG AAA ATG GAA GAG TTT CCG GAC CAG	576
108	Lys Lys Cys Glu Lys Glu Glu Lys Lys Met Glu Glu Phe Pro Asp Gln	
109	175 180 185	
110		
111	GAC ATC TCT CCT TTG CCC CAA CCT TCG TCA AGG AAC AAA AGC AGA AAG	624
112	Asp Ile Ser Pro Leu Pro Gln Pro Ser Ser Arg Asn Lys Ser Arg Lys	
113	190 195 200	
114		
115	CAT ACG GAG GCG CTC CAG AAG CTA AGG GAA GTG AAC AAG CGT CTC CAA	672
116	His Thr Glu Ala Leu Gln Lys Leu Arg Glu Val Asn Lys Arg Leu Gln	
117	205 210 215 220	
118		
119	GAT CTC CGC TCC TGC CTG AGC CCC AAG CAG CAC CAG AGT CCA GCC CTT	720
120	Asp Leu Arg Ser Cys Leu Ser Pro Lys Gln His Gln Ser Pro Ala Leu	
121	225 230 235	
122		
123	CAG AGC ACA GAT GAT GAG GTG GTC CTA GTG GAA GGG CCT GTC TTG CCA	768
124	Gln Ser Thr Asp Asp Glu Val Val Leu Val Glu Gly Pro Val Leu Pro	
125	240 245 250	
126		
127	CAG AGC TCT CGA CTC TTT ACA CTC AAG ATC CGG TGC CGG GCT GAC CTA	816
128	Gln Ser Ser Arg Leu Phe Thr Leu Lys Ile Arg Cys Arg Ala Asp Leu	
129	255 260 265	
130		
131	GTG AGA CTG CCT GTC AGG ATG TCG GAG CCC CTT CAG AAT GTG GTG GAT	864
132	Val Arg Leu Pro Val Arg Met Ser Glu Pro Leu Gln Asn Val Val Asp	
133	270 275 280	
134		
135	CAC ATG GCC AAT CAT CTT GGG GTG TCT CCA AAC AGG ATT CTT TTG CTT	912
136	His Met Ala Asn His Leu Gly Val Ser Pro Asn Arg Ile Leu Leu Leu	
137	285 290 295 300	
138		
139	TTT GGA GAG AGT GAA CTG TCT CCT ACT GCC ACC CCT AGT ACC CTA AAG	960
140	Phe Gly Glu Ser Glu Leu Ser Pro Thr Ala Thr Pro Ser Thr Leu Lys	
141	305 310 315	
142		
143	CTT GGA GTG GCT GAC ATC ATT GAT TGT GTG GTG CTA GCA AGC TCT TCA	1008
144	Leu Gly Val Ala Asp Ile Ile Asp Cys Val Val Leu Ala Ser Ser Ser	
145	320 325 330	
146		
147	GAG GCC ACA GAG ACA TCC CAG GAG CTC CGG CTC CGG GTG CAG GGG AAG	1056
148	Glu Ala Thr Glu Thr Ser Gln Glu Leu Arg Leu Arg Val Gln Gly Lys	
149	335 340 345	
150		
151	GAG AAA CAC CAG ATG TTG GAG ATC TCA CTG TCT CCT GAT TCT CCT CTT	1104
152	Glu Lys His Gln Met Leu Glu Ile Ser Leu Ser Pro Asp Ser Pro Leu	

INPUT SET: S34907.raw

	350	355	360	
153	AAG GTT CTC ATG TCA CAC TAT GAG GAA GCC ATG GGA CTC TCT GGA CAC			1152
154	Lys Val Leu Met Ser His Tyr Glu Glu Ala Met Gly Leu Ser Gly His			
155	365	370	375	380
156	AAG CTC TCC TTC TTC TTT GAT GGG ACA AAG CTT TCA GGC AAG GAG CTG			1200
157	Lys Leu Ser Phe Phe Asp Gly Thr Lys Leu Ser Gly Lys Glu Leu			
158		385	390	395
159	CCA GCT GAT CTG GGC CTG GAA TCC GGA GAT CTC ATC GAA GTC TGG GGC			1248
160	Pro Ala Asp Leu Gly Leu Glu Ser Gly Asp Leu Ile Glu Val Trp Gly			
161		400	405	410
162	TGAAGCTCTC ACCCTGTTCG GACGCAAAGC CAAGACATGG AGACAATAGC TCCCAATTTT			1308
163	ATTATTGTGA TTTTTCGCCC CATAAGGGCT AACAGAAACT GAATTAGAAC TTGTTTACTT			1368
164	ATTTATTTCT GGTGCTGGGG ATTGAACCCC AGACTATGCA CATGCTAAGG ATGTATGAAG			1428
165	TGGAGGCCAAA ACCAAGGCAT TACCCTTAGC CAGCCTCTAG TAGACTGTAG TGTC AAGCAA			1488
166	GTGGCTACTT GGTA GTTG TG GCTCTGTG TATGTTTGTG CTGTATTTGG CAGCCCCCTGG			1548
167	GGCACATAGA AGGGACCTTG GCTTCCCTAC CATTTACAGT TCGCTGGTGC CCTTTCCTTC			1608
168	ATCAGATGAC TTCTGTGAAG CTGCCTATGT TGAGTGTGTT GAACTAAATG AGCTCTGCTT			1668
169	TGGGTGTCCA GGCCTGGGGT TTGTGCCGCA GTTGAGGCCA GCAGTGA CTT CACTCTGACT			1728
170	TGGGACTGAG AATGCATTTT CTGGTGAGAGA CACTCGGGTG CAGAAATATA ACAGAAGGTG			1788
171	ACATACATGC TGAAGCTGAG GACTAGGTCG AAAGTTAACG ACGTTGCATT TTCAGCCTTG			1848
172	GGTATCCTCT CTGCCTGCCA GGA CTCTAGC CAGTGTCTGG TACACACTTC TTGGCATGGA			1908
173	CACCTAGGTC GACGCGGGCG CGATTCCGCC GACTCGAG			1946

192 (2) INFORMATION FOR SEQ ID NO:2:

```

194      (i) SEQUENCE CHARACTERISTICS:
195          (A) LENGTH: 412 amino acids
196          (B) TYPE: amino acid
197          (D) TOPOLOGY: linear

```

```

199          (ii) MOLECULE TYPE: protein

```

201 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

203 Met Ala Glu Pro Leu Arg Gly Arg Gly Pro Arg Ser Arg Gly Gly Arg
204 1 5 10 15
205

RAW SEQUENCE LISTING PATENT APPLICATION US/09/192,611

 DATE: 03/01/2000
 TIME: 12:43:35

INPUT SET: S34907.raw

206	Gly	Ala	Arg	Arg	Ala	Arg	Gly	Ala	Arg	Gly	Arg	Cys	Pro	Arg	Ala	Arg
207				20					25					30		
208																
209	Gln	Ser	Pro	Ala	Arg	Leu	Ile	Pro	Asp	Thr	Val	Leu	Val	Asp	Leu	Val
210			35					40					45			
211																
212	Ser	Asp	Ser	Asp	Glu	Glu	Val	Leu	Glu	Val	Ala	Asp	Pro	Val	Glu	Val
213		50					55					60				
214																
215	Pro	Val	Ala	Arg	Leu	Pro	Ala	Pro	Ala	Lys	Pro	Glu	Gln	Asp	Ser	Asp
216	65					70					75					80
217																
218	Ser	Asp	Ser	Glu	Gly	Ala	Ala	Glu	Gly	Pro	Ala	Gly	Ala	Pro	Arg	Thr
219					85					90					95	
220																
221	Leu	Val	Arg	Arg	Arg	Arg	Arg	Arg	Leu	Leu	Asp	Pro	Gly	Glu	Ala	Pro
222				100					105					110		
223																
224	Val	Val	Pro	Val	Tyr	Ser	Gly	Lys	Val	Gln	Ser	Ser	Leu	Asn	Leu	Ile
225			115					120						125		
226																
227	Pro	Asp	Asn	Ser	Ser	Leu	Leu	Lys	Leu	Cys	Pro	Ser	Glu	Pro	Glu	Asp
228		130					135					140				
229																
230	Glu	Ala	Asp	Leu	Thr	Asn	Ser	Gly	Ser	Ser	Pro	Ser	Glu	Asp	Asp	Ala
231	145					150					155					160
232																
233	Leu	Pro	Ser	Gly	Ser	Pro	Trp	Arg	Lys	Lys	Leu	Arg	Lys	Lys	Cys	Glu
234					165					170					175	
235																
236	Lys	Glu	Glu	Lys	Lys	Met	Glu	Glu	Phe	Pro	Asp	Gln	Asp	Ile	Ser	Pro
237				180					185					190		
238																
239	Leu	Pro	Gln	Pro	Ser	Ser	Arg	Asn	Lys	Ser	Arg	Lys	His	Thr	Glu	Ala
240			195					200					205			
241																
242	Leu	Gln	Lys	Leu	Arg	Glu	Val	Asn	Lys	Arg	Leu	Gln	Asp	Leu	Arg	Ser
243		210						215					220			
244																
245	Cys	Leu	Ser	Pro	Lys	Gln	His	Gln	Ser	Pro	Ala	Leu	Gln	Ser	Thr	Asp
246	225					230					235					240
247																
248	Asp	Glu	Val	Val	Leu	Val	Glu	Gly	Pro	Val	Leu	Pro	Gln	Ser	Ser	Arg
249					245					250					255	
250																
251	Leu	Phe	Thr	Leu	Lys	Ile	Arg	Cys	Arg	Ala	Asp	Leu	Val	Arg	Leu	Pro
252				260					265					270		
253																
254	Val	Arg	Met	Ser	Glu	Pro	Leu	Gln	Asn	Val	Val	Asp	His	Met	Ala	Asn
255			275					280					285			
256																
257	His	Leu	Gly	Val	Ser	Pro	Asn	Arg	Ile	Leu	Leu	Leu	Phe	Gly	Glu	Ser
258		290					295					300				

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/192,611*

DATE: 03/01/2000
TIME: 12:43:35

INPUT SET: S34907.raw

Line

Error

Original Text